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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23373 7590 03/20/2008 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON DC 20037

EXAMINER			
HO, HOANG QUAN TRAN			
ART UNIT PAPER NUMBER			

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/572,680	03/20/2006	Hideki Tomozawa	Q77727	4411

TITLE OF INVENTION: GALLIUM NITRIDE-BASED COMPOUND SEMICONDUCTOR LIGHT-EMITTING DEVICE AND ELECTRODE FOR THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/20/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth	or transmitt ig the Paten ierwise in B	ing the ISSU t, advance or lock 1, by (a	rders and notification of a) specifying a new corre	maintenance fees v spondence address	vill be and/or	mailed to the current (b) indicating a sepa	correspondence address rate "FEE ADDRESS"	s as for
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EXAM	INER	ART	UNIT	CLASS-SUBCLASS	]				
HO, HOANG	QUAN TRAN	28	318	257-099000					
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	ondence address (or Cha 3/122) attached. ication (or "Fee Address' 2 or more recent) attach	nge of Corre " Indication   ed. Use of a	spondence form Customer	For printing on the particle (1) the names of up to or agents OR, alternation (2) the name of a sing registered attorney or 2 registered patent attellisted, no name will be THE PATENT (print or ty	o 3 registered pater wely, le firm (having as a agent) and the nam orneys or agents. If printed.	t attorr	era 2		_
PLEASE NOTE: Uni recordation as set forti (A) NAME OF ASSIG	ess an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, pletion of thi	no assignee s form is NO	data will appear on the p T a substitute for filing an (B) RESIDENCE: (CIT)	patent. If an assign assignment. Y and STATE OR C	OUNT	'RY)		
4a. The following fee(s):  Issue Fee Publication Fee (N	o small entity discount p	permitted)	41	b. Payment of Fee(s): (Ple     A check is enclosed.     Payment by credit ca     The Director is hereboverpayment, to Depo	rd. Form PTO-2038	is atta	ched.		1).
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SUGHRUE MIC	ON, PLLC		HO, HOANG	QUAN TRAN
	ANIA AVENUE, N.W	<b>'.</b>	ART UNIT	PAPER NUMBER
SUITE 800 WASHINGTON, DC 20037			2818 DATE MAII ED: 03/20/200	8

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)
10/572,680	TOMOZAWA ET AL.
Examiner	Art Unit
Hoang-Quan Ho	2818

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERTIS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowaper (PTO-45) or other appropriate communication will be mailed use ourse. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiation of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1. Some allowed claim(s) is/are 1.16.  3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some of the certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in Application No  4. Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  5. Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERDO IS NOT EXTENDABLE.  4. A SUBSTITUTE CATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  6. Including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  10 Information Disclosure Statements (PTO/58/08), Paper No./Mail Date  21. Solice of References Cited (PTO-892)  22. Noti		
2. ☑ The allowed claim(s) is/are <i>f_16</i> . 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) ☐ heretor or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  (c) ☐ including changes required by the Allowed Section of Paper No./Mail Date  (dentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.12(d).  6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BloClOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding Requirement for Deposit of BloQical Material.  7. ☑ Examiner's Statement	All claims being allowable, PROSECUTION ON THE MERITS IS (OR REM herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other a NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. 1	MAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initiati
3.	1. This communication is responsive to 12/28/07.	
a) All b) Some* c) None of the:  1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  1. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  (dentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.12(d).  6. DEPOSIT OF and/or INFORMATION about the deposit of BloCLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding Requirement for Deposit of Biological Material.  Attachment(s)  1. Notice of Informal Patent Application  5. Notice of Informal Patent Application  6. Interview Summary (PTO-413), Paper No./Mail Date  7. Examiner's Comment Regarding Requirement for Deposit of Biological Material	<ol> <li>The allowed claim(s) is/are <u>1-16</u>.</li> </ol>	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.     A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5.    CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (a)   including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1)   hereto or 2)   lo Paper No./Mail Date  (b)   including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  (dentifying indicia such as the application number (see 37 CFR 1.34(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.12(d).  6.   DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.  Altachment(s)  1.   Notice of Informal Patent Application  5.   Notice of Informal Patent Application  6.   Interview Summary (PTO-413), Paper No./Mail Date  Paper No./Mail Date  7.   Examiner's Comment Regarding Requirement for Deposit of Biological Material.	a) All b) some* c) none of the:  1. Certified copies of the priority documents have been rec  2. Certified copies of the priority documents have been rec  3. Copies of the certified copies of the priority documents in	beived. seived in Application No
noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PRIOD IS NOT EXTENDABLE.  4. □ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. □ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (a) □ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) □ heretor or 2) □ to Paper No./Mail Date  (b) □ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  (identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.12(d).  6. □ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.  Aktachment(s)  1. □ Notice of Parftperson's Patent Drawing Review (PTO-948)  3. □ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  Paper No./Mail Date  1. □ Examiner's Comment Regarding Requirement for Deposit of Biological Material.	* Certified copies not received:	
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. □ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (a) □ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) □ heretor or 2) □ to Paper No./Mail Date  (b) □ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  (b) □ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  (dentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.12(d).  6. □ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.  Attachment(s)  1. □ Notice of References Cited (PTO-892)  2. □ Notice of Partiperson's Patent Drawing Review (PTO-948)  3. □ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  Paper No./Mail Date  1. □ Examiner's Comment Regarding Requirement for Deposit of Biological Material.	noted below. Failure to timely comply will result in ABANDONMENT of the	
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1. ☑ Notice of Refrences Cited (PTO-992)  □ Notice of Draftperson's Patent Drawing Review (PTO-948)  □ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date Paper No./Mail Date Statements (PTO/SB/08), Paper No./Mail Date Statement of Examiner's Amendment/Comment Statement of Reasons for Allowance of Biological Material	(a) including changes required by the Notice of Draftsperson's Pate  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Amendr Paper No./Mail Date  Identifying Indicia such as the application number (see 37 CFR 1.84(c)) she each sheet. Replacement sheet(s) should be labeled as such in the header  6. DEPOSIT OF and/or INFORMATION about the deposit of BIG	unt Drawing Review ( PTO-948) attached  ment / Comment or in the Office action of  build be written on the drawings in the front (not the back) of according to 37 CFR 1.121(d).  DLOGICAL MATERIAL must be submitted. Note the
	1.   Notice of References Cited (PTO-892) 2.   Notice of Draftperson's Patent Drawing Review (PTO-948) 3.   Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date Paper No./Mail Date Learner's Comment Regarding Requirement for Deposit	6. Interview Summary (PTO-413), Paper No./Mail Date 7. Examiner's Amendment/Comment 8. Examiner's Statement of Reasons for Allowance

Application/Control Number: 10/572,680

Art Unit: 2818

## DETAILED ACTION

## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 28. 2007 has been entered.

## Response to Amendment

Applicant's amendment to the claims, filed on November 21, 2007, is acknowledged. Entry of amendment is accepted and made of record. Currently, claims 1 – 16 are pending in light of the amendment, in which: claim 1 was amended; no claim was cancelled; no claim was withdrawn; and no claim was added.

# Response to Arguments/Remarks

Applicant's response filed on November 21, 2007 is acknowledged and is answered as follows.

Applicant's arguments, see pgs. 5 – 7, with respect to the rejection of claims have been fully considered and are persuasive in view of the amendment. Therefore, the rejections have been rendered moot.

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# Allowable Subject Matter

Claims 1 - 16 are allowed.

The following is an examiner's statement of reasons for the indication of allowable subject matter: The cited art, whether taken singularly or in combination, especially when all limitations are considered within the claimed specific combination, fails to teach or render obvious:

Claim 1: An electrode for gallium nitride based compound semiconductor lightemitting device comprising one and only one continuous light-permeable first layer in contact with a surface of a p-contact layer in a gallium nitride based compound semiconductor light-emitting device, and a second layer in contact with part of a surface of p-contact layer and parted in plural portions on the surface of the p-contact layer, wherein the first layer comprises a metal or alloys of Au, Pt, Pd, Ni, Co, and Rh and the second layer comprises an oxide metal of Ni, Ti, Sn, Cr, Co, Zn, Cu, Mg, and In. Claims 2 – 15 depend from claim 1.

Claim 16: A gallium nitride based compound semiconductor light-emitting device having claim 1's electrode structure.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. From Notice of References Cited:

Ref. A: Ref. no. 180 is of interest. However, the ref. teaches that the layers are in reverse order in view of Applicant's claimed invention.

Ref. B. Ref. nos. 114 – 116 of Fig. 9 is of interest. However, the ref. does not disclose for gallium nitride based compound device.

Ref. C: Figs. 1 – 2 are of interest. However, the ohmic contact layer is not structured like Applicant's claimed invention.

Refs. U-V: The refs. teaches that the layers are in reverse order in view of Applicant's claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang-Quan Ho whose telephone number is 571-272-8711. The examiner can normally be reached on Monday - Friday, 9 AM - 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Loke can be reached on 571-272-1657. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Page 5

Application/Control Number: 10/572,680

Art Unit: 2818

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HQH/ Hoang-Quan Ho Assistant Patent Examiner March 14, 2008

/Andy Huynh/

Primary Examiner, Art Unit 2818